SECTION 1 – INFORMATION & ASSUMPTIONS

This proposal is for the supply, installation & commissioning of a Hanwha CCTV system at **NT Wentworth Castle & Gardens .**

Drawings:	Site survey
Tender document:	
Design by:	SS Sytstems Ltd

Systems Overview:

The IP CCTV System will comprise of a Hanwha 8ch NVR complete with 1 X 8tB Digital Hard Drive. A New 22 inch HD Flatscreen colour monitor will be fitted adjacent for staff and engineer review onsite. Unless otherwise directed the NVR is to be installed within Estate Gardens Workshop, a option is shown for local power by way of standard electrical sockets (one socket for each piece of equipment), and for furniture to mount the equipment 1no 12U cabinet





- Up to 8CH, 8MP camera supported
- H.265, H.264, MJPEG codec
- 80Mbps network camera recording
- Plug & play by 8PoE(LAN, 10/100), 1PoE(WAN, 1Gbps)
- SATA 1ea(up to 6TB)
- ARB supported

All the proposed control equipment will be mounted on existing worktops within the workshop

2no Hanwha IP Camera's are to be installed as per the table detailed on page 8 of this proposal. The cameras have been selected in co-ordination with the site survey. Where no requirement has been uncovered, SS Systems have based the design as follows;





- Max. 4MP resolution
- Colour : 0.1Lux (F1.6, 1/30sec), B/W : 0Lux (IR LED On)
- 3.2 ~ 10mm (3.1x) motorised varifocal
- IR viewable length: 30m (98.42ft)
- Day&Night (ICR), WDR (120dB)
- H.265, H.264, MJPEG, Multiple streaming supported
- Motion detection, Tampering, Defocus detection
- Hallway view (90°/270°), LDC support
- Micro SD/SDHC/SDXC memory slot (Max. 128GB)
- IP66, IK10



Workshop:







CAM 1 – Location: Cottage front facia high level, cable to be surface clipped on cottage walls.





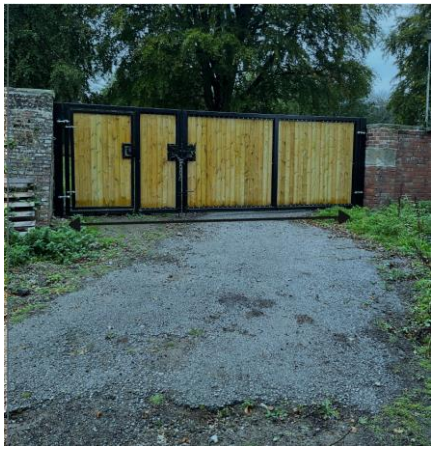
1no Camera located in the indicated position and facing the vehicle approach to capture the main garden entrance gate and external storage area opposite.

CCTV control equipment & monitor to be fitted in workshop
The cable penetration and routes are yet to be determined but are anticipated using standard practices and fixing arrangement.

The image showing the Garden main gate is to receive ground works to submerge the SWA CAT6 for Camera 1 control cable and allow surface clipping (secure side) to the new Camera 1 position.

CAM 2 - Location - Park Drive Garden vehicle entrance gate





1no 6m Pole fixed to the internal wall of the Walled Garden to provide fixing and height for 1no Camera focused on the area immediately within the secure side of the vehicle gate, civils required to new position

Trees and shrubbery should be kept maintained regularly for the view required from this point.

The electrical supply for this arrangement is (PoE) -Power over Ethernet with equipment designed to provide the correct voltage and transmission over the anticipated circuit length (250m) and a large surface junction box for control equipment and connections.
The system design allows for images to be recorded and stored for a minimum of 14 days.

Omissions from this quotation:
Electrical supply
4G router
Lockable enclosure
Cab 18U FE 66 Comms Cabinet - 18u floor standing network data rack comms cabinet ECO Net Cab - Size : 600w x 600d

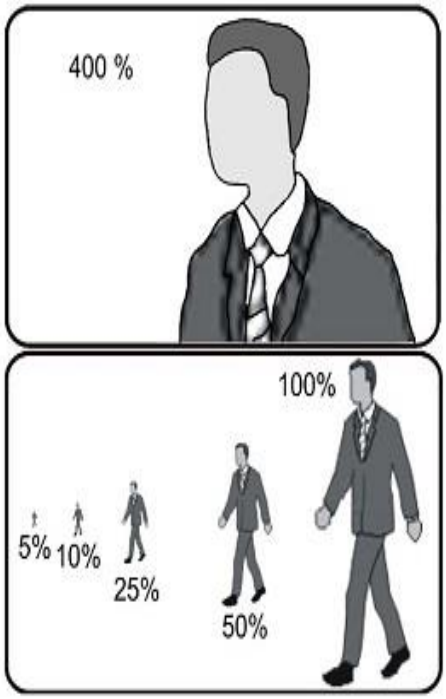
Responsibilities:

	Customer	SS Systems
Mains Supplies	☒	☐
CCTV Furniture	☒	☐
Civil Works / Tower Installation	☐	☒
Data Network Installation (IP Systems only)	☐	☒
Switch Management (IP systems only)	☐	☒

^^^ Please note *that images within this specification are for illustration/representation purposes. The equipment installed may differ from that shown.*

CAMERA SELECTION:

SS Systems has selected cameras and lens based on the application guidelines of EN 50132-7 which defines CCTV image attributes as follows:



1.Monitor and control (5%): At this level of detail an observer can monitor the number, direction and speed of movement of people across a wide area such as a car park.

2.Detect (10%): The presence of a person in the field viewed is clear, e.g., in a space such as a yard expected to be unattended.

3.Observe (25%): Some characteristic details of the individual, such as distinctive clothing, can be seen, e.g., to establish that smokers clustered at an exit appear to be staff rather than strangers.

4.Recognise (50%): Viewers can say with a high degree of certainty whether or not an individual shown is the same as someone they have seen before – as is necessary, for example, to control access to the premises.

5.Identify (100%): Picture quality and detail are sufficient to enable the identity to be established beyond reasonable doubt as would be desirable for evidential purposes.

Please note the percentages of screen height shown in brackets above are based upon PAL 576i resolution and modern HD cameras can achieve the same results with much lower percentages depending on the screen resolution used. BS EN 50132-7:2012 Table 3 details screen height equivalents for different digital resolutions.

Illumination Levels:

Each camera will be selected based upon a specification which the Company believes best matches the optimal light source based upon information available at the time of survey or tender. Any lighting required for the correct operation for the cameras at night or in dark areas is the responsibility of others.

Ongoing Operation & Servicing:

Please note the continuing ability of this system to meet the Customers operational requirements is subject to agreed periodic maintenance being carried out in accordance with the manufacturers and our recommendations. We have included an Annual Maintenance price within this proposal.